

Title (en)
REFRIGERATION CYCLE DEVICE

Title (de)
KÄLTEKREISLAUFVORRICHTUNG

Title (fr)
DISPOSITIF À CYCLE FRIGORIFIQUE

Publication
EP 3936787 B1 20240110 (EN)

Application
EP 20783739 A 20200326

Priority
• JP 2019067716 A 20190329
• JP 2020013873 W 20200326

Abstract (en)
[origin: EP3936787A1] A refrigerant circuit (20) includes a first compressor (21), a second compressor (22), a heat-source-side heat exchanger (24), an expansion mechanism (26), and a use-side heat exchanger (27). The refrigerant circuit (20) is capable of performing a single-stage compression operation in which one of the first compressor (21) and the second compressor (22) is driven and the other is stopped, and a two-stage compression operation in which both the first compressor (21) and the second compressor (22) are driven. The control unit (100) controls the refrigerant circuit (20) so that, of the single-stage compression operation and the two-stage compression operation, an operation with a higher compression efficiency is performed.

IPC 8 full level
F25B 1/00 (2006.01); **F25B 1/10** (2006.01)

CPC (source: EP US)
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Citation (examination)
• JP 2010121801 A 20100603 - MITSUBISHI HEAVY IND LTD
• CN 206803544 U 20171226 - SHANGHAI HI PERFORMANCE ENV EQUIPMENT CO LTD
• CN 105758034 A 20160713 - GUANGDONG MIDEA REFRIGERATION EQUIPMENT CO LTD, et al
• CN 107816816 A 20180320 - ANHUI MEIZHI PREC MANUFACTURING CO LTD

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AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 3936787 A1 20220112; **EP 3936787 A4 20220518**; **EP 3936787 B1 20240110**; AU 2020252607 A1 20211028; AU 2020252607 B2 20230330; CA 3134702 A1 20201008; CA 3134702 C 20240319; CN 113677939 A 20211119; CN 113677939 B 20230404; JP 2020165647 A 20201008; JP 6939936 B2 20210922; PL 3936787 T3 20240527; US 2022011020 A1 20220113; WO 2020203708 A1 20201008

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